

Form PTO-1449 U.S. Dept. of Commerce Patent & Trademark Office	ATTY. DOCKET NO. 1719F US	SERIAL NO. NYA 09/856987
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)	APPLICANT PANG, I k-hou	
	FILING DATE May 25, 2001	GROUP NYA

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
2-F	AD	4,550,022	10.29.85	Garabedian, et al.	424	127
2-F	AB	5,641,750	06.24.97	Louis	514	12
	AC					
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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
2-F	AL	98/10758	10.03.98	PCT	X
	AM				X
	AN				
	AO				
	AP				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2-F	AR	<input checked="" type="checkbox"/> Van Buskirk, et al., "Predicted outcome from hypotensive therapy for glaucomatous optic neuropathy," <u>Am. J. Ophthalmol.</u> , Vol. 116(5):636-640, (1993).
2-F	AS	<input checked="" type="checkbox"/> Schumer, et al., "The nerve of glaucoma!," <u>Arch. Ophthalmol.</u> , Vol. 112:37-44, (1994).
2-F	AT	<input checked="" type="checkbox"/> Raff, et al., "Programmed cell death and the control of cell survival: lessons from the nervous system," <u>Science</u> , Vol. 262:695-700, (1993).

EXAMINER <i>Robert Fay</i>	DATE CONSIDERED 2/15/02
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							YES	NO
		BL						
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		BO						
		BP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.F	BR ✓	Anderson, et al., "Effect of intraocular pressure on rapid axoplasmic transport in monkey optic nerve," <u>Invest. Ophthalmol.</u> , Vol. 13(10):771-783, (1974).
2.F	BS ✓	Quigley, et al., "The dynamics and location of axonal transport blockade by acute intraocular pressure elevation in primate optic nerve," <u>Invest. Ophthalmol.</u> , Vol. 15(8):606-616, (1976).
2.F	BT ✓	Mansour-Robaey, et al., "Effects of ocular injury and administration of brain-derived neurotrophic factor on survival and regrowth of axotomized retinal ganglion," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 91:1632-1636, (1994).

EXAMINER <i>Zabur Fay</i>	DATE CONSIDERED <i>2/15/02</i>
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
Z.F	CR ✓	Meyer-Franke, et al., "Characterization of the signaling interactions that promote the survival and growth of developing retinal ganglion cells in culture," <u>Neuron</u> , Vol. 15:805-819, (1995).
Z.f	CS ✓	Cui, et al., "NT-4/5 reduces naturally occurring retinal ganglion cell death in neonatal rats," <u>Neuroreport</u> , Vol. 5(15):1882-1884, (1994).
Z.F	CT ✓	Lewin, et al., "Physiology of the neurotrophins," <u>Ann. Rev. Neurosci.</u> , Vol. 19:289-317, (1996).

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						YES NO
DL	Patent No.					
DM						
DN						
DO						
DP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	DR	✓	Segal, et al., "Intracellular signaling pathways activated by neurotrophic factors," <u>Ann. Rev. Neurosci.</u> , Vol. 19:463-489, (1996).
2.f	DS	✓	Ebadi, et al., "Neurotrophins and their receptors in nerve injury and repair," <u>Neurochem Int.</u> , Vol. 30(4/5):347-374, (1997).
2.f	DT	✓	Kaplan, et al., "Signal transduction by the neurotrophin receptors," <u>Curr. Opin. Cell Biol.</u> , Vol. 9:213-221, (1997).

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						YES NO
	EL	Patent No.				
	EM					
	EN					
	EO					
	EP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	ER	Jelsma, et al., "Different forms of the neurotrophin receptor trkB mRNA predominate in rat retina and optic nerve," <u>J. Neurobiol.</u> , Vol. 24(9):1207-1214, (1993).
2.f	ES	Rickman, et al., "Expression of the protooncogene, <i>trk</i> , receptors in the developing rat retina," <u>Vis. Neurosci.</u> , Vol. 12:215-222, (1995).
2.f	ET	Ugolini, et al., "TrkA, TrkB and p75 mRNA expression is developmentally regulated in the rat retina," <u>Brain Res</u> , Vol. 704:121-124, (1995).

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						YES NO
FF	Patent No.					
FM						
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	FR ✓	Cellerino, et al., "Brain-derived neurotrophic factor/neurotrophin-4 receptor TrkB is localized on ganglion cells and Dopaminergics amacrine cells in the vertebrate retina," <u>J. Comp. Neurol.</u> , Vol. 386:149-160, (1997).
2.f	FS ✓	Gao, et al., "Elevated mRNA expression of brain-derived neurotrophic factor in retinal ganglion cell layer after Optic nerve injury," <u>Invest. Ophthalmol. Vis. Sci.</u> , Vol. 38(9):1840-1847, (1997).
2.f	FT ✓	Lindholm, et al., "Brain-derived neurotrophic factor is a survival factor for cultured rat cerebellar granule neurons and protects them against glutamate-induced neurotoxicity," <u>Eur. J. Neurosci.</u> , Vol. 5:1455-1464, (1993).

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							YES NO
	GL	Patent No.					
	GM						
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
2.f	HR	✓	Unoki, et al., "Protection of the rat retina from ischemic injury by brain-derived neurotrophic factor, ciliary Neurotrophic factor, and basic fibroblast growth factor," <u>Invest. Ophthalmol. Vis. Sci.</u> , Vol. 35(3):907-915, (1994).				
2.f	HS	✓	Beck, et al., "Brain-derived neurotrophic factor protects against ischemic cell damage in the rat hippocampus, " <u>J. Cereb. Blood Flow Metab.</u> , Vol. 14:689-692, (1994).				
2.f	HT	✓	Kirsch, et al., "Evidence for multiple, local functions of ciliary neurotrophic factor (CNTF) in retinal development: expression of CNTF and its receptors and in vitro....," <u>J. Neurochem.</u> , Vol. 68(3):979-990, (1997).				

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
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	IP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	IR	✓	Mey, et al., "Intravitreal injections of neurotrophic factors support the survival of axotomized retinal ganglion cells in adult rats in vivo," <u>Brain Res.</u> , Vol. 602:304-317, (1993).
2.f	IS	✓	Weibel, et al., "Brain-derived neurotrophic factor (BDNF) prevents lesion-induced axonal die-back in young rat optic nerve," <u>Brain Res.</u> , Vol. 679:249-254, (1995).
2.f	IT	✓	Graul & Castaner, "AIT-082," <u>Drugs of the Future</u> , Vol. 22(9):945-947, (1997).

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	Patent No.					YES NO
JL						
JM						
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	JR ✓	Nabeshima, et al., "Oral administration of NGF synthesis stimulators recovers reduced brain NGF content in aged rats and cognitive dysfunction in basal-forebrain-lesioned rats," <u>Gerontology</u> , Vol. 40(2):46-56, (1994).
2.f	JS ✓	Matsui, et al., "Protective effects of ONO-2506 on neurological deficits and brain infarct volume following 1 week of permanent occlusion of middle cerebral.....," <u>Society for Neurosci. Abstracts</u> , Vol. 24:254, (1998).
2.f	JT ✓	Gronborg, et al., "Neuroprotection by a novel compound, NS521," <u>Society for Neurosci. Abstracts</u> , Vol. 24:1551, (1998).

EXAMINER <div style="font-family: cursive; font-size: 1.2em;">Zuhair Fay</div>	DATE CONSIDERED <div style="font-family: cursive; font-size: 1.2em;">2/15/02</div>
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						YES NO
	KE	Patent No.				
	KM					
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	KR ✓	Aimone, et al., "The 1 α ,25(OH) ₂ D ₃ analog CB-1093 induces nerve growth factor in non-human primate brain," <u>Society for Neurosci. Abstracts</u> , Vol. 24:292, (1998).
2.f	KS ✓	Culmsee, et al., "NGF antisense oligonucleotide blocks protective effects of clenbuterol against glutamate-Induced excitotoxicity in vitro and focal cerebral.....," <u>Society for Neurosci. Abstracts</u> , Vol. 24:295, (1998).
2.F	KT ✓	Takahashi, N. et al., "Rat retinal ganglion cells in culture," <u>Exp. Eye Res.</u> , Vol. 53:565-572, (1991).

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					YES NO
LL	Patent No.				
LM					
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Z-F	LR ✓	Shinoda, et al., "Stimulation of nerve growth factor synthesis/secretion by propentofylline in cultured mouse astroglial cells," <u>Biochem. Pharmacol.</u> , Vol. 39(11):1813-1816, (1990).
Z-F	LS ✓	Nabeshima, et al., "Impairment of learning and memory and the accessory symptom in aged rat as senile dementia model: oral administration of propentofylline...", <u>Jpn. J. Psychol. Pharmacol.</u> , Vol. 13:89-95, (1993).
Z-F	LT ✓	<u>Ophthalmic Surgery</u> : Principles of Practice, Ed., G.L. Spaeth, W.B. Sanders Co., Philadelphia, PA, U.S.A., Page 85-87, (1990).

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						YES NO
MJ	Patent No.					
MM						
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MO						
MP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.F	MR ✓	Hammes, et al., "Nerve growth factor prevents both neuroretinal programmed cell death and capillary pathology In experimental diabetics," <u>Molecular Medicine</u> , Vol. 1(5):527-534, July 1995.
2.F	MS ✓	Rathbone, et al., "Physiology and pharmacology of natural and synthetic nonadenine-based purines in the nervous system," <u>Drug Development Research</u> , Vol. 45:356-372, (1998).
2.F	MT ✓	Takeda Chem Ind, Ltd., "New drug prevent treat diabetes complicated comprise benzoquinone hydroquinone form treat....," Derwent Publications, Ltd., London XP-002136481 & JP 05 009114A, 19 January 1993 abstract

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							YES	NO
NL								
NM								
NN								
NO								
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	NR	✓	Yamamoto, et al., "Neuroprotective effect of 4 ¹ -(4-methylphenyl)-2,2 ¹ :6 ¹ ,2-terpyridine trihydrochloride, a novel inducer of nerve growth factor," <u>Life Sciences</u> , Vol. 59(25/26):2139-2146, (1996).
2.f	NS	✓	Nitta, et al., "Oral administration of idebenone induces nerve growth factor in the brain and improves learning..," <u>Archives of Pharmacology</u> , Vol. 349:401-407, (1994).
2.f	NT	✓	Culmsee, et al., "Neuroprotection by drug-induced growth factors," <u>Pharmacology of Cerebral Ischemia</u> , 7 th , Pages 333-348, (1999).

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2.f	OR ✓	Semkova, et al., "Clenbuterol protects mouse cerebral cortex and rat hippocampus from ischemic damage and attenuates glutamate neurotoxicity in cultured hippocampal...", <u>Brain Research</u> , Vol. 717:44-54, (1996).
2.f	OS ✓	Riaz, et al., "A vitamin D ₃ derivative (CB1093) induces nerve growth factor and prevents neurotrophic deficits in streptozotocin-diabetic rats," <u>Diabetologia</u> , Vol. 42:1308-1313, (1999).
2.f	OT ✓	Gronborg, et al., "Neuroprotection by a novel compound, NS521 ¹ ," <u>The Journal of Pharmacology and Experimental Therapeutics</u> , Vol. 290(1):348-353, (1999).

EXAMINER <div style="font-family: cursive; font-size: 1.2em;">Zahner Fg</div>	DATE CONSIDERED <div style="font-family: cursive; font-size: 1.2em;">2/15/02</div>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

